

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION CONCERNING  
TRANSMITTAL OF COPY OF INTERNATIONAL  
PRELIMINARY REPORT ON PATENTABILITY  
(CHAPTER I OF THE PATENT COOPERATION  
TREATY)  
(PCT Rule 44bis.1(c))

To:

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ETATS-UNIS D'AMERIQUE

Date of mailing ( <i>day/month/year</i> ) 28 August 2008 (28.08.2008)		
Applicant's or agent's file reference 0057-014PCT		<b>IMPORTANT NOTICE</b>
International application No. PCT/US2007/004080	International filing date ( <i>day/month/year</i> ) 16 February 2007 (16.02.2007)	
Priority date ( <i>day/month/year</i> ) 16 February 2006 (16.02.2006)		
Applicant TECHNOLOGY PROPERTIES LIMITED et al		

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Nora Lindner
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# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 0057-014PCT	<b>FOR FURTHER ACTION</b>	See item 4 below
International application No. PCT/US2007/004080	International filing date ( <i>day/month/year</i> ) 16 February 2007 (16.02.2007)	Priority date ( <i>day/month/year</i> ) 16 February 2006 (16.02.2006)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant TECHNOLOGY PROPERTIES LIMITED		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).																								
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.																								
3.	<p>This report contains indications relating to the following items:</p> <table style="width: 100%;"> <tr> <td style="width: 10%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width: 30%;">Box No. I</td> <td style="width: 60%;">Basis of the report</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input checked="" type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																							
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44 <i>bis</i> .2).																								

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 19 August 2008 (19.08.2008)</p> <p>Authorized officer  <div style="text-align: center;">Nora Lindner</div></p> <p>e-mail: pt11.pct@wipo.int</p>
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## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
Larry E. Henneman, Jr.  
Henneman & Associates, PLC  
714 W. Michigan Ave.  
Three Rivers, MI 49093

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year)

05 MAY 2008

Applicant's or agent's file reference  
0057-014PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/US 07/04080

International filing date (day/month/year)

16 February 2007 (16.02.2007)

Priority date (day/month/year)

16 February 2006 (16.02.2006)

International Patent Classification (IPC) or both national classification and IPC

IPC(8) - G06F 1/00 (2008.01)

USPC - 713/323

Applicant Technology Properties Limited

## 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis, 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

## 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

## 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450  
Facsimile No. 571-273-3201

Date of completion of this opinion

07 March 2008 (07.03.2008)

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 07/04080

## Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:
- ☒ the international application in the language in which it was filed.
- ☐ a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. ☐ This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a)).
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:
- a. type of material
- ☐ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☐ on paper
- ☐ in electronic form
- c. time of filing/furnishing
- ☐ contained in the international application as filed
- ☐ filed together with the international application in electronic form
- ☐ furnished subsequently to this Authority for the purposes of search
4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 07/04080

## Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
- ☐ paid additional fees
  - ☐ paid additional fees under protest and, where applicable, the protest fee
  - ☐ paid additional fees under protest but the applicable protest fee was not paid
  - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
- ☐ complied with
  - ☒ not complied with for the following reasons:

Group 1, claims 1-11;  
Group 2, claims 12-23.

Group 1 requires the special technical feature of a sequencer providing a pulse to advance from a presently executed instruction to a next instruction, said instruction includes a bit for providing an input to the sequencer such that the sequencer is triggered into action when the bit is set, not required by Group 2.

Group 2 requires the special technical feature of causing a computer to stop operation when a communication is attempted with an outside entity and causing the computer to resume operation when completion of the communication with the outside entity is acknowledged or completed, not required by Group 1.

None of these special technical features are common to the other groups, nor do they correspond to a special technical feature in the other groups. Therefore, unity of invention is lacking under PCT Rule 13.1.

4. Consequently, this opinion has been established in respect of the following parts of the international application:

- ☐ all parts
- ☒ the parts relating to claims Nos. 1-11

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 07/04080

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1-11	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-11	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims	None	NO

**2. Citations and explanations:**

Claims 1-11 lack an inventive step under PCT Article 33(3) as being obvious over US 4,589,067 A to Porter et al. (hereinafter 'Porter') in view of US 6,178,525 B1 (Warren).

As per claim 1, Porter discloses a computer comprising: a processor for executing instructions from an instruction area (see col 3, ln 20-34); and a sequencer for providing a pulse to advance from a presently executed instruction to a next instruction (see col 3, ln 52-54; and col 8, ln 54-59).

Porter does not specifically disclose that said instruction includes a bit for providing an input to the sequencer such that the sequencer is triggered into action when the bit is set.

Warren discloses a computer comprising: a processor for executing instructions from an instruction area (see col 3, ln 21-28); and a sequencer to advance to a next instruction (see col 20, ln 16-18, 61-65); wherein the instruction includes a bit for providing an input to the sequencer such that the sequencer is triggered into action when the bit is set (see col 23, ln 18-26).

It would have been obvious to one of ordinary skill in the art to combine the teachings of Porter and Warren because both disclose a computer comprising a processor for executing instructions from an instruction area; and a sequencer to advance to a next instruction.

Warren's disclosure of the instruction including a bit for providing an input to the sequencer such that the sequencer is triggered into action when the bit is set efficiently executes additional computations while conserving power.

As per claim 2, Warren further discloses that the bit is set when it is a '1' (see col 22, ln 29-31).

As per claim 3, Porter further discloses that the instructions are part of a larger instruction word (see col 8, ln 59-61).

As per claim 4, Warren further discloses that when said bit for providing an input to the sequencer is not set then the sequencer is not triggered into action (see col 23, ln 19-25).

As per claim 5, Warren further discloses that when said bit for providing an input to the sequencer is not set then a first communications status line is set between the computer and a second computer (see col 6, ln 36-40).

As per claims 6 and 7, Warren further discloses that said first communications status line is a write line or a read line (see col 6, ln 38).

As per claim 8, Warren further discloses that when a second communications status line is set then data is transferred between the computer and second computer (see col 6, ln 39-44).

As per claim 9, Warren further discloses that data is transferred from the computer to the second computer (see col 6, ln 39-44).

As per claim 10, Warren further discloses that the data includes an instruction (see col 19, ln 8-19).

As per claim 11, Warren further discloses when the second communications status line is set then an input is provided to the sequencer such that the sequencer is triggered into action (see col 23, ln 18-26).

Claims 1-11 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.